

## AMENDMENTS TO THE CLAIMS

Please cancel claims 1, 11-18, 20, and 23 without prejudice, and amend claims 2-3, 6, 8-10, 19, and 21-22 as follows:

- 1 1. (Cancelled)
- 1 2. (Currently Amended) The method of claim 21, wherein said data  
2 for said plurality of customer locations includes travel time and  
3 cost to transfer a part from each of said plurality of stocking  
4 locations to each of said customer locations.
- 1 3. (Currently Amended) A method of determining inventory levels  
2 of parts for a plurality of stocking locations, said method  
3 comprising:  
  
4 providing data for a plurality of customer locations, unit price  
5 of said parts, request rates for each of said parts for each of  
6 said customer locations, handling costs for each of said stocking  
7 locations, and travel time and transportation cost between said  
8 stocking locations ~~The method of claim 1, wherein said request~~  
9 rates include a probability distribution for one or more of said  
10 request rates;:  
  
11 specifying a parts procurement time performance measure for  
12 transfer of said parts from said plurality of stocking locations  
13 to said plurality of customer locations, wherein said parts  
14 procurement time performance measure comprises the percentage of  
15 parts in said request rates which can be transferred from any  
16 said stocking location to each respective said customer location  
17 within a pre-specified time, and wherein equipment requiring one

18       or more of said parts is installed at one or more of said  
19       plurality of customer locations;

20       entering said data and said performance measure into an  
21       optimization computer program;

22       computing said inventory levels of said parts for said plurality  
23       of stocking locations using said optimization computer program;  
24       and

25       ordering sufficient numbers of said parts to maintain said  
26       inventory levels at said plurality of stocking locations, wherein  
27       said inventory levels are such that said performance measure is  
28       met.

1       4. (Original) The method of claim 3, wherein said probability  
2       distribution is a Poisson distribution.

1       5. (Cancelled)

1       6. (Currently Amended) A method of determining inventory levels  
2       of parts for a plurality of stocking locations, said method  
3       comprising:

4       providing data for a plurality of customer locations, unit price  
5       of said parts, request rates for each of said parts for each of  
6       said customer locations, handling costs for each of said stocking  
7       locations, and travel time and transportation cost between said  
8       stocking locations;

9       specifying a parts procurement time performance measure for  
10      transfer of said parts from said plurality of stocking locations

11       to said plurality of customer locations, wherein said parts  
12       procurement time performance measure comprises the percentage of  
13       parts in said request rates which can be transferred from any  
14       said stocking location to each respective said customer location  
15       within a pre-specified time. The method of claim 1, wherein said  
16       parts are grouped by importance into a plurality of groups and  
17       said pre-specified time comprises a corresponding plurality of  
18       times., and wherein equipment requiring one or more of said parts  
19       is installed at one or more of said plurality of customer  
20       locations;

21       entering said data and said performance measure into an  
22       optimization computer program;

23       computing said inventory levels of said parts for said plurality  
24       of stocking locations using said optimization computer program;  
25       and

26       ordering sufficient numbers of said parts to maintain said  
27       inventory levels at said plurality of stocking locations, wherein  
28       said inventory levels are such that said performance measure is  
29       met.

1       7. (Original) The method of claim 6, wherein inventory levels are  
2       computed to minimize overall cost while meeting or exceeding said  
3       plurality of times.

1       8. (Currently Amended) The method of claim 21, wherein said  
2       optimization computer program is a mixed integer optimization  
3       program.

1       9. (Currently Amended) The method of claim 21, wherein said

2 inventory levels are computed to meet a total inventory cost  
3 while maximizing the percentage of said parts in said request  
4 rates which can be transferred from any said stocking location to  
5 each respective said customer location within a pre-specified  
6 time.

1 10. (Currently Amended) The method of claim 21, further  
2 comprising computing ~~the~~ an estimated time for each part to be  
3 transferred from any said stocking location to each respective  
4 said customer location for each of said parts in said request  
5 rates.

1 11-18. (Cancelled)

1 19. (Currently Amended) A computer program product for  
2 instructing a processor to determine inventory levels of parts  
3 for a plurality of stocking locations, said computer program  
4 product comprising;

5 a computer readable medium;

6 first program instruction means for providing data for a  
7 plurality of customer locations, unit price of said parts,  
8 request rates for each of said parts for each of said customer  
9 locations, handling costs for each of said stocking locations,  
10 and travel time and transportation cost between said stocking  
11 locations, wherein said request rates include a probability  
12 distribution for one or more of said request rates;

13 second program instruction means for specifying a parts  
14 procurement time performance measure for transfer of said parts  
15 from said plurality of stocking locations to said plurality of

16 customer locations, wherein said parts procurement time  
17 performance measure comprises the percentage of parts in said  
18 request rates which can be transferred from any said stocking  
19 location to each respective said customer location within a  
20 pre-specified time, and wherein equipment requiring one or more  
21 of said parts is installed at one or more of said plurality of  
22 customer locations;

23 third program instruction means for entering providing said data  
24 and said performance measure into an optimization computer  
25 program;

26 fourth program instruction means for computing said inventory  
27 levels of said parts for said plurality of stocking locations  
28 using said optimization computer program; and

29 fifth program instruction means for ordering sufficient numbers  
30 of said parts to maintain said inventory levels at said plurality  
31 of stocking locations, wherein said inventory levels are such  
32 that said performance measure is met; and wherein

33 all said program instruction means are recorded on said medium.

1 20. (Cancelled)

1 21. (Currently Amended) A method of determining inventory levels  
2 of parts for a plurality of stocking locations, said method  
3 comprising:

4 providing data for a plurality of customer locations, unit price  
5 of said parts, request rates for each of said parts for each of  
6 said customer locations, handling costs for each of said stocking

7       locations, and travel time and transportation cost between said  
8       stocking locations;

9       specifying a parts procurement time performance measure, wherein  
10      said parts procurement time performance measure comprises the  
11      percentage of parts in said request rates which can be  
12      transferred from any said stocking location to each said  
13      respective customer location within a pre-specified time, and the  
14      method of claim 20, wherein said parts are grouped by importance  
15      into a plurality of groups and said pre-specified time comprises  
16      a corresponding plurality of times.;

17      entering said data and said performance measure into an  
18      optimization computer program;

19      computing said inventory levels of said parts for said plurality  
20      of stocking locations using said optimization computer program;  
21      and

22      ordering sufficient numbers of said parts to maintain said  
23      inventory levels at said plurality of stocking locations.

1       22. (Previously Presented) The method of claim 21, wherein  
2       inventory levels are computed to minimize overall cost while  
3       meeting or exceeding said plurality of times.

23. (Cancelled)